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Technological Singularity AlphaGo Zero superhuman Quantum Supremacy

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BRAIN Initiative

Quantum Supremacy

AlphaGo Zero Superhuman Quantum Supremacy

Nature publishes a paper titled "Quantum supremacy using a programmable superconducting processor" by John J. A. et al. [1]

AlphaGo Zero Nature publishes a paper titled "AlphaGo Zero Superhuman" by Thore Graepel et al. [3] AlphaGo Zero is a program that can play the game of Go without any human knowledge. AlphaGo Zero is a program that can play the game of Go without any human knowledge.

Quantum Supremacy Nature publishes a paper titled "Quantum supremacy using a programmable superconducting processor" by John J. A. et al. [4]

Shor's algorithm Quantum Supremacy

qubit NISQ noisy intermediate-scale quantum

Quantum Supremacy Sycamore NISQ noise noise noise

Sycamore AlphaGo Zero

Quantum Supremacy noise

Sycamore Sycamore 200 10000

Quantum Supremacy NISQ John Preskill [5]

Quantum Supremacy Quantum Supremacy Nature

Quantum Supremacy optimization machine learning NISQ noisy Sycamore

noisy Sycamore

Quantum Supremacy

Nature Superhuman Quantum Supremacy

tensor

AlphaGo Zero Superhuman Quantum Supremacy

Académie française

Superhuman Quantum Supremacy phrase

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- [1] Dialogo sopra i due massimi sistemi del mondo (Dialogue Concerning the Two Chief World Systems), Galileo Galilei, published in 1632.
- [2] Philosophiæ Naturalis Principia Mathematica (Mathematical Principles of Natural Philosophy), Isaac Newton, published in 1687.
- [3] Mastering the game of Go without human knowledge, Silver D., Schrittwieser J., Simonyan K. et al, published in Nature, on 18 October 2017:  
<https://www.nature.com/articles/nature24270>.
- [4] Quantum supremacy using a programmable superconducting processor, Arute F. et al, published in Nature, on 23 October, 2019:  
<https://www.nature.com/articles/s41586-019-1666-5>
- [5] <https://www.quantamagazine.org/john-preskill-explains-quantum-supremacy-20191002/>.